USER MANUAL

Plug-in Sensor

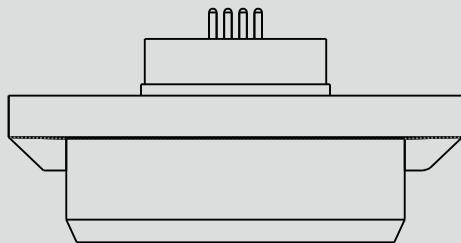### ⚠ DANGER

Warning against hazards that may result in material damage in case of non-observance.

⚠ CAUTION

Risk of injury caused by a falling luminaire.

In case of improper mounting, the luminaire or luminaire elements may fall down and cause personal injuries and material damage.

- X   The installation must be performed by a trained skilled electrician only.
- X   Mount only on a ceiling which is suitable for mounting.
- X   Use suitable screws and dowels only.
- X   Use only the delivered fastening elements or other suitable fastening elements available from the manufacturer.
- X   Mount all securing elements.

⚠ WARNING

Risk of electrocution due to live components.

In case of incorrect connection, the housing of the luminaire or the wire ropes may carry electric voltage and cause severe injuries.

- X   Have the luminaire connected by a skilled electrician only.
- X   The luminaire must be connected to a mains supply with protective earth conductor.
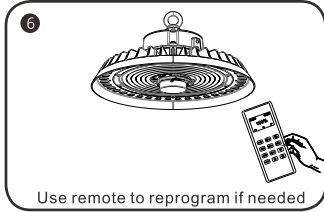- X   Connect the grounding cable mounted on the holding plate to the protective earth conductor terminal.
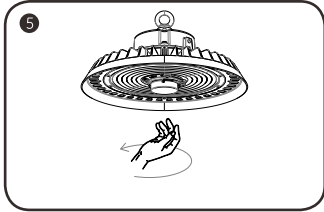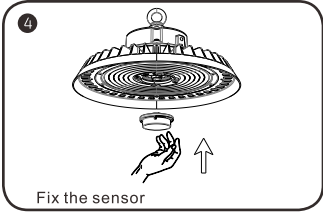

NOTICE

Material damage if the admissible total power consumption is exceeded.

Damage or destruction of the luminaire.

- X   Do not daisy chain more than six luminaires.

Installation

① Disconnect the power supply

② Remove the plastic cap

③

④ Fix the sensor

⑤

⑥ Use remote to reprogram if needed

Working program

Power On

Off

Check

Dim — No motion

motion

100% On

Hold-time ends
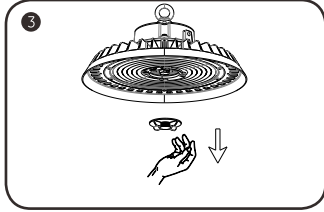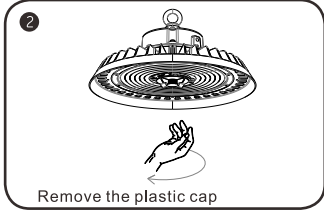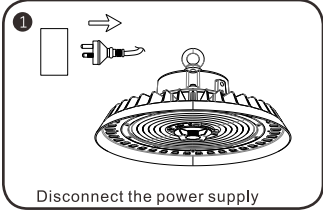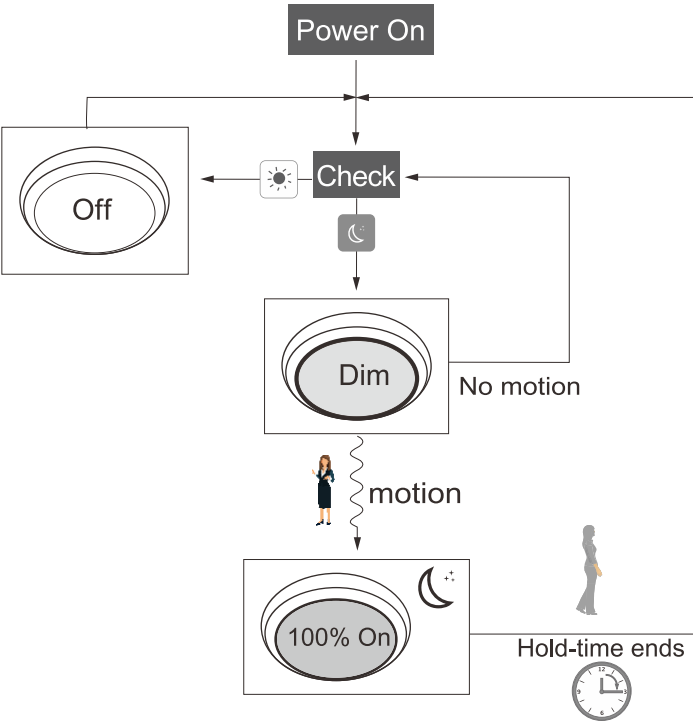
Sensor Options

| Micro-wave & Daylight |
| PIR & Daylight |
| Daylight Sensor |
| Zigbee Micro-wave Sensor |
| Zigbee PIR Sensor |
| Zigbee Daylight Sensor |
| Zigbee Micro-wave + Daylight |
| Zigbee PIR + Daylight |

Detection

Detection Coverage

Coverage Side View

0m

8m

PIR 12m
Micro-wave15m

9m 6m 4m 2m 0m 2m 4m 6m 9m

Coverage Top View

9m

0m   18m

9m

Demonstration

Target-time: 10min
Setpoint on:50lux
Setpoint off:300lux
Waiting Level:50%
Waiting Time: 30mins
Background Level: 10%
Background Time: +∞

Target time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Waiting Time

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

Waiting Level

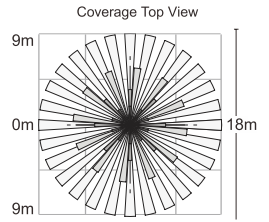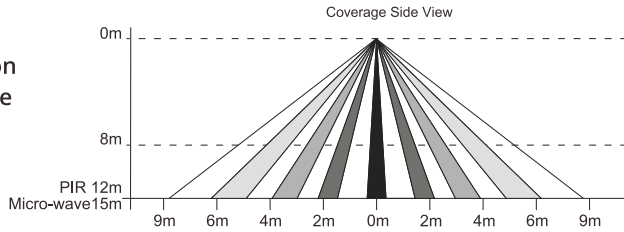*The low light level you would like to have after the hold time in the long absence of people*

❶ 21:00

❷ 21:10

❸ 21:40

❶ ⇌ ❸ goes in cycle at night …

100% on when movement detected, and dims to 10% in long absence.

❹ 08:10

The light switches on at 100% when there is movement detected.

The light dims to 50% waiting level after the hold-time.

The light remains in 10% low dimming level at night.
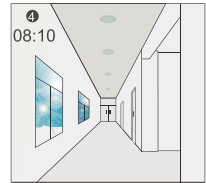
When the natural light level exceeds setpoint off to light, the light will turn off even if when the space is occupied.

Factory Default Setting:

Detection range: 100%
Target Level time: 10mins
Daylight sensor: off
Waiting level: 50%
Waiting level time : 30mins
Background level: 0%

Re-programmable

Fixed on up to 15meters after installation, the high bay will be not easy to adjust the working program. But the user may not satisfied with the performance and sensitivity or Dim level is needed to adjust for different season. In order to make the extra work easy and no machines are needed, one remote control is provided to re-program the sensor.

Charging Voltage	2.5-3.6V
Control Range	15m
Battery Type	AAAx2 battery
Standby Current	<3uA
Infrared Wave Length	940±50nm
Operating Temperature	0℃ ~ 50℃
N.W.	63g
G.W.	73g
Size	140mmx45mmx20mm

Setting

reset all settings to default value

short press to set Waiting Level (default: 50%)
long press 3s and release to set Background Level (default: 0%)

disable daylight sensor

short press to run stored light level S1/ S2
long press 3s and release to save current light level as S1/ S2

On/ off button. When the light is switched off and on again, it returns to the last light level.

brightness 100%. Cancel auto mode

Waiting level time setting (default: 30min)

RESET

AUTO

Waiting Level / Background Level
75%/15% 50%/10% 30%/5% 10%/0%

Detection Range
100% 80% 60% 30%

Daylight Sensor

Target Lux

☀+

S1 ⏻ S2

☀−

Brightness 100%

Brightness Memory

Waiting Level Time
0s 10s 1min
5min 10min 30min

Target Level Time
10s 30s 1min
5min 10min 30min

AUTO mode switch, for both daylight sensor and motion sensor. (Default: off)

change detection range (default: 100%)

Save as Target Lux for desired light level

short press to increase/ decrease light level every 20%
long press to increase/ decrease light level every 1%

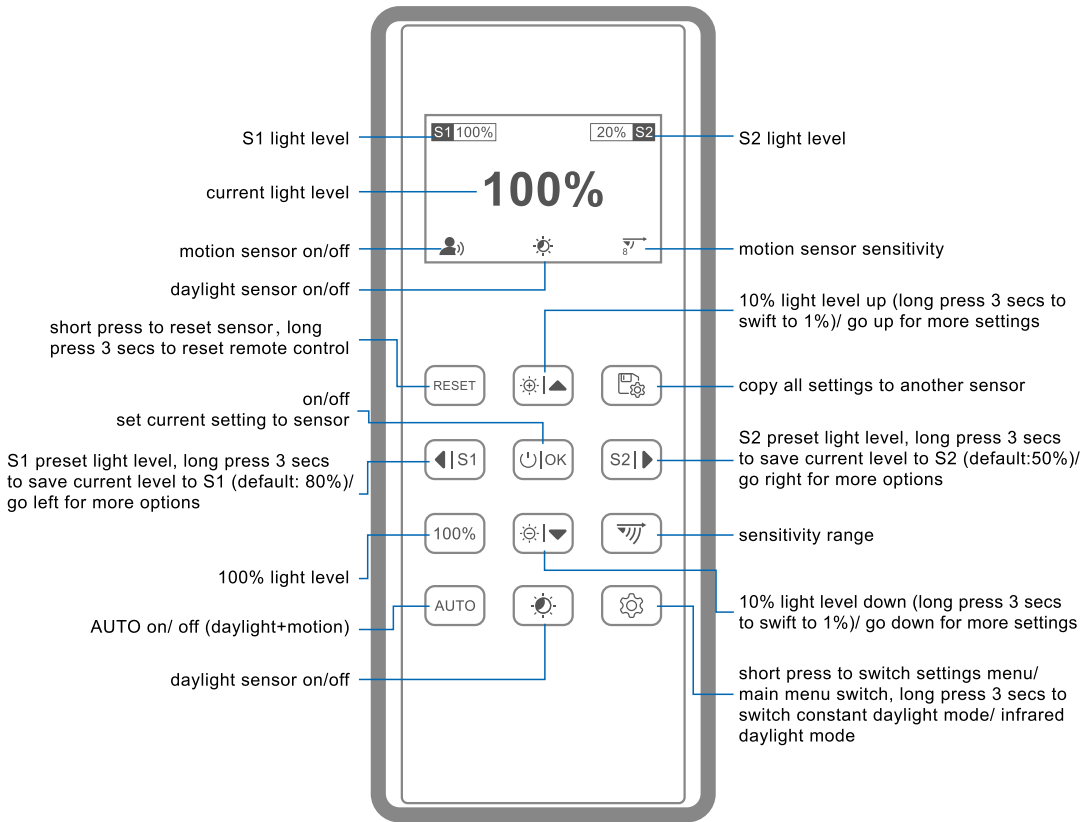Brightness Memory switch for last status before power outage

Target level time setting (Default: 10min)

Distance range: 15m
Battery: AAAx2

Re-programmable

Fixed on up to 15meters after installation, the high bay will be not easy to adjust the working program. But the user may not satisfied with the performance and sensitivity or Dim level is needed to adjust for different season. In order to make the extra work easy and no machines are needed, one remote control is provided to re-program the sensor.

Charging Voltage	3.0~3.6
Control Range	20m
Battery Type	AAAx2 battery
Standby Current	<5uA
Infrared Wave Length	940±50nm
Operating Temperature	-20℃ ~ 35℃
N.W.	103g
G.W.	120g
Size	140x56x20mm

Setting

S1 light level

current light level

motion sensor on/off

daylight sensor on/off

short press to reset sensor , long press 3 secs to reset remote control

on/off
set current setting to sensor

S1 preset light level, long press 3 secs to save current level to S1 (default: 80%)/ go left for more options

100% light level

AUTO on/ off (daylight+motion)

daylight sensor on/off

S1 100%   20% S2

100%

RESET

S1

100%

AUTO

S2 light level

motion sensor sensitivity

10% light level up (long press 3 secs to swift to 1%)/ go up for more settings

copy all settings to another sensor

S2 preset light level, long press 3 secs to save current level to S2 (default:50%)/ go right for more options

sensitivity range

10% light level down (long press 3 secs to swift to 1%)/ go down for more settings

short press to switch settings menu/ main menu switch, long press 3 secs to switch constant daylight mode/ infrared daylight mode

Distance range: 20m
Battery: AAAx2

Setting menu

Setting	Description	Option
Motion	Motion Sensor On/Off	**On**/Off
Daylight	Daylight Sensor On/Off	**On**/Off
Sen Range	Motion Sensor Sensitivity Range	**100**/90/80/70/60/50/40/30
Target L.	Target Level	**100**/95/90/85/80/75/70/65
Waiting L.	Waiting Level	80/70/60/**50**/40/30/20/10
Bkgd L.	Background Level	30/25/20/15/10/5/1/**0**
Taget T.	Target Level Holding Time	10S/30S/1M/5M/10M/**30M**/45M/60M
Waiting T.	Waiting Level Holding Time	0S/10S/1M/5M/**10M**/30M/45M/60M
Save Lux	Save Current Lux As Target Lux (for constant daylight sensor only)	On/**Off**
Thr Lux	Threshold Value Of Infrared Daylight Sensor To Turn Off Light	550/500/450/**400**/350/300/250/200/150/100
Day. Intv	Interval Of Infrared Daylight Sensor To Change Level	15S/30S/**1M**/3M/5M/10M/15M/20M
Ltd Watts	Limit The Max Light Wattage	70%-**90%**
Lumen Depr	Lumen Depreciation On/Off	On/**Off**
Depr Perc	Wattage Increase Percentage	1%/**2%**/3%/4%/5%
Depr Hours	Wattage Increase Interval	**3K**/4K/5K/6K/7K/8K/9K/10K
Level Mem	Level Memory On/Off	On/**Off**

Key Response

When any key on the remote control is pressed, the sensor and LED light will flash for corresponding feedback shown below

Key	Status	Green Indicator LED	Lamp
RESET	–	Flash Twice	100% brightness
Copy All Settings	–	–	Flash Once
Brightness Up/Down	–	–	–
S1/S2	Short Press	–	–
	Long Press	–	Flash Once
ON/OFF	–	–	–
100% Brightness	–	–	–
Sensitivity Range	–	–	Flash Once
AUTO	ON	Flash Once	Flash Once
	OFF	–	Flash Once
Daylight Sensor	–	–	Flash Once
Motion Sensor	ON	Flash Once	Flash Once
	OFF	–	Flash Once
Daylight Sensor	ON	Flash Once	Flash Once
	OFF	–	Flash Once
Sensitivity Range	–	–	Flash Once
Target Level	–	–	Flash Once
Waiting Level	–	–	Flash Once
Background Level	–	–	Flash Once
Target Level Holding Time	–	–	Flash Once
Waiting Level Holding Time	–	–	Flash Once
Save Current Lux As Target Lux	–	–	Flash Once
Threshold Value Of Infrared Daylight Sensor To Turn Off Light	–	–	Flash Once
Interval Of Infrared Daylight Sensor To Change Level	–	–	Flash Once
Limit The Max Light Wattage	–	–	Flash Once
Lumen Depreciation	ON	Flash Once	Flash Once
	OFF	–	Flash Once
Wattage Increase Percentage	–	–	Flash Once
Wattage Increase Interval	–	–	Flash Once
Level Memory	ON	Flash Once	Flash Once
	OFF	–	Flash Once